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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/13/2009

EXAMINER

ALBERTALLI, BRIAN LOUIS

PAPER NUMBER

ART UNIT 2626

DATE MAILED: 10/13/2009

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634.744	08/06/2003	Hubert Lemoine	0579-1014	7857

TITLE OF INVENTION: METHOD OF AUDIO-INTONATION CALIBRATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further ndicated unless correcte maintenance fee notificat	ed below or directed otl	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new co	of marresp	aintenance fees will condence address; a	l be i ind/or	mailed to the current of (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s paper	) Transmittal. This ( s. Each additional p	certifi oaper,	icate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
YOUNG & THOMPSON 209 Madison Street Suite 500				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
ALEXANDRIA	, VA 22314							(Depositor's name)
								(Signature)
					<u> </u>			(Date)
APPLICATION NO.	LICATION NO. FILING DATE F		FIRST NAMED INVENT	NTOR A		ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/634,744	08/06/2003		Hubert Lemoine				0579-1014	78 <b>5</b> 7
		-INTONATION CALIB						
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nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	01/13/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	$\sqcup$				
ALBERTALLI,	BRIAN LOUIS	2626	704-270000	100				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a 2					
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comj GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (Cl	e pat an a	ent. If an assignee ssignment. and STATE OR CO	UNT	RY)	cument has been filed for
			D. Payment of Fee(s): (I  A check is enclose  Payment by credit  The Director is her	Pleas ed. card	e first reapply any . Form PTO-2038 is	previous attace	iously paid issue fee sl ched. required fee(s), any def	hown above)
a. Applicant claim	tus (from status indicate s SMALL ENTITY statu	ıs. See 37 CFR 1.27.					TITY status. See 37 CF.	
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Authorized Signature					Date			
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466 75	90 10/13/2009		EXAM	INER	
YOUNG & THOMPSON			ALBERTALLI, BRIAN LOUIS		
209 Madison Stree	t		ART UNIT	PAPER NUMBER	
Suite 500 ALEXANDRIA, VA 22314			2626		
ALEAANDRIA, V	A 22314		DATE MAILED: 10/13/2009		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 724 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 724 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/634,744	LEMOINE ET AL.				
Notice of Allowability	Examiner	Art Unit				
	BRIAN L. ALBERTALLI	2626				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to IDS submitted 4 Sept	<u>'ember 2009</u> .					
2. ☑ The allowed claim(s) is/are <u>1-7,9,13 and 16-21</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	been received. been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>						
<ul> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of</li></ul>	con's Patent Drawing Review (PTO).  s Amendment / Comment or in the (	Office action of ings in the front (not the back) of (d).  must be submitted. Note the				
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amend	Patent Application r (PTO-413), ute				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem 9. □ Other	<ul><li>8. ☑ Examiner's Statement of Reasons for Allowance</li><li>9. ☐ Other</li></ul>				

#### **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-7, 9, 13, and 16-21 are allowed.

The following is an examiner's statement of reasons for allowance:

The additional prior art submitted 4 September 2009 does not disclose or suggest the patentable subject matter described below. Claims 1-7, 9, 13, and 16-21 are allowed for the same reasons as given in the previous Office Action, repeated below.

Independent claims 1 and 19 require emitting a model audio signal to be imitated to the auditory organs of a subject, performing a spectral analysis on the model audio signal, emitting an imitation audio signal that corresponds to the model audio signal while a subject is practicing a language to be studied, and correcting the imitation audio signal as a function of a comparison between the spectrum of the imitation audio signal and the model audio signal.

Cave et al. disclose a method of altering the spectrum of a user's speech signal when practicing a language to be studied. However, the spectrum of the user's speech signal is corrected based on the language being learned. Thus, Cave et al. do not disclose or suggest first emitting a model audio signal and performing a spectral analysis on the model audio signal to use in the correction step.

Jeong discloses a method of switching between a model audio signal and a user's imitation audio signal so that the user can compare the two audio signals.

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However, Jeong does not disclose or suggest modifying the spectrum of the user's imitation audio signal and further does not disclose or suggest performing a spectral analysis on the model audio signal.

Yoshioka et al. disclose a karaoke device that analyses model audio signal to be imitated and adjusts the spectrum of an imitation audio signal to match the model audio signal. However, since Yoshioka et al. is applied to a karaoke application, there is no teaching or suggestion to first emit the model audio signal to be imitated, because a user would sing along as the music was playing, and not listen to the target singer prior to providing an imitation audio signal. Further, Yoshioka et al. do not disclose or suggest practicing a language being studied.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN L. ALBERTALLI whose telephone number is (571)272-7616. The examiner can normally be reached on Monday-Thursday, 8 AM to 6:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R Hudspeth/ Supervisory Patent Examiner, Art Unit 2626

BLA 10/5/09